**Geometry/Algebra 2, Section 12.1 Explore Solids, p 794**

**P 798 #3-20 ALL**

3. Yes; pentagonal pyramid; The figure comes to a point and the base is a pentagon.

4. Yes; Hexagonal prism; there are two congruent hexagon bases

5. No, there is a curved surface

6. The triangle is congruent and parallel to another triangle. Therefore, that is the base and *not* the rectangle.

7. See sketches

8. See sketches

9. See sketches

10. See sketches

11. 8 faces

12. 5 vertices

13. 24 vertices

14. 20 faces

15. Faces: 4

Vertices: 4

Edges: 6

F + V = E + 2

4 + 4 = 6 + 2

8 = 8

16. Faces: 5

Vertices: 5

Edges: 8

5 + 5 = 8 + 2

10 = 10

17. Faces: 5

Vertices: 6

Edges: 9

5 + 6 = 9 + 2

11 = 11

18. Faces: 5

Vertices: 6

Edges: 9

5 + 6 = 9 + 2

11 = 11

19. Faces: 8

Vertices: 12

Edges: 18

8 + 12 = 18 + 2

20 = 20

20. Faces: 8

Vertices: 12

Edges: 18

8 + 12 = 18 + 2

20 = 20